

Lavon Lake Route Study

FM 1378 to SH 78

Public Meeting

City of Wylie Municipal Complex

October 7, 2009



Lavon Lake Route Study

Public Meeting Agenda

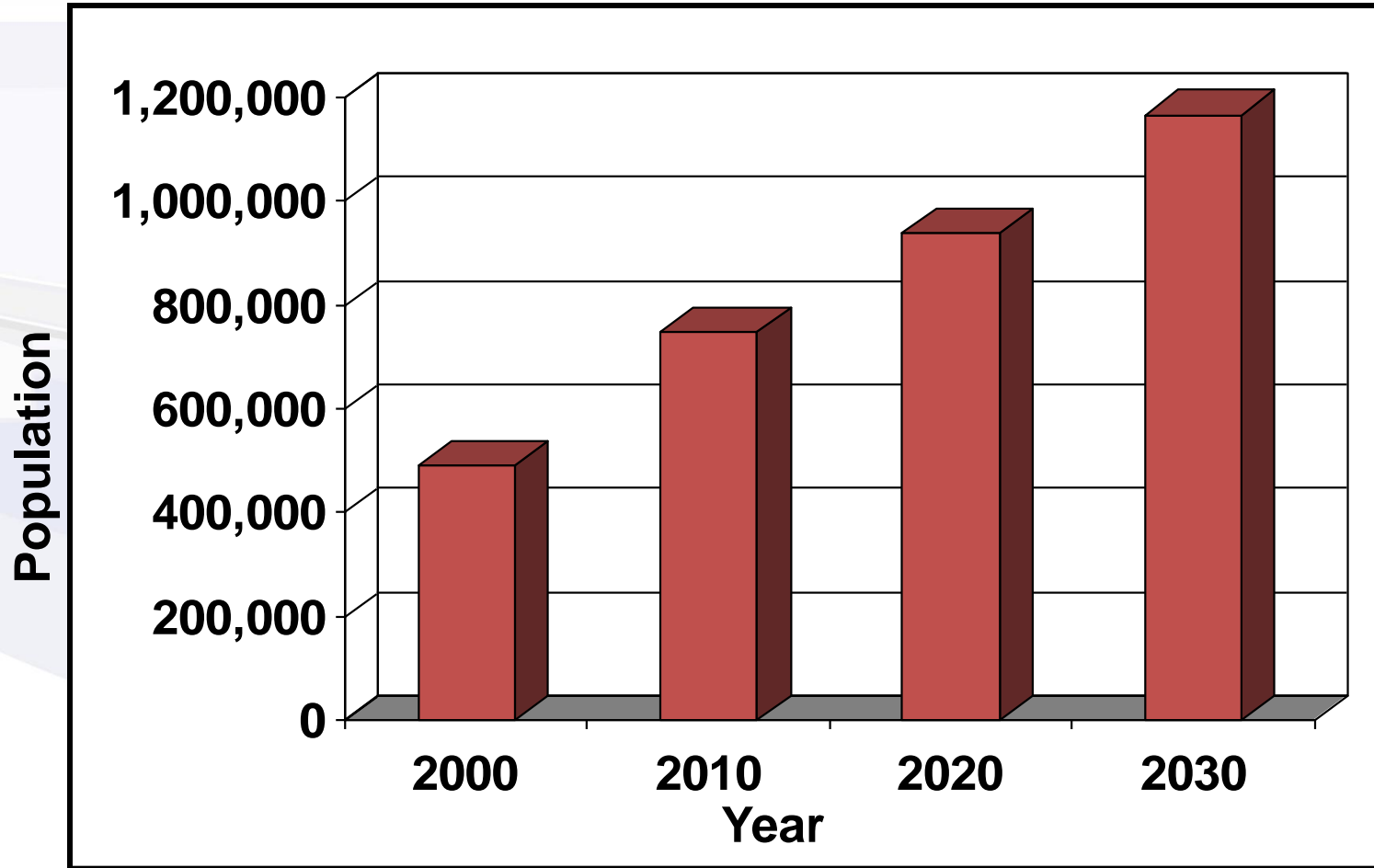
- Project Need and Purpose
- Route Study Process
- Data Assembly and Review
- Alternative Alignment Development
- Evaluation Criteria
- Project Schedule
- Questions and Comments



Lavon Lake Route Study

Project Need and Purpose

Collin County Population Growth



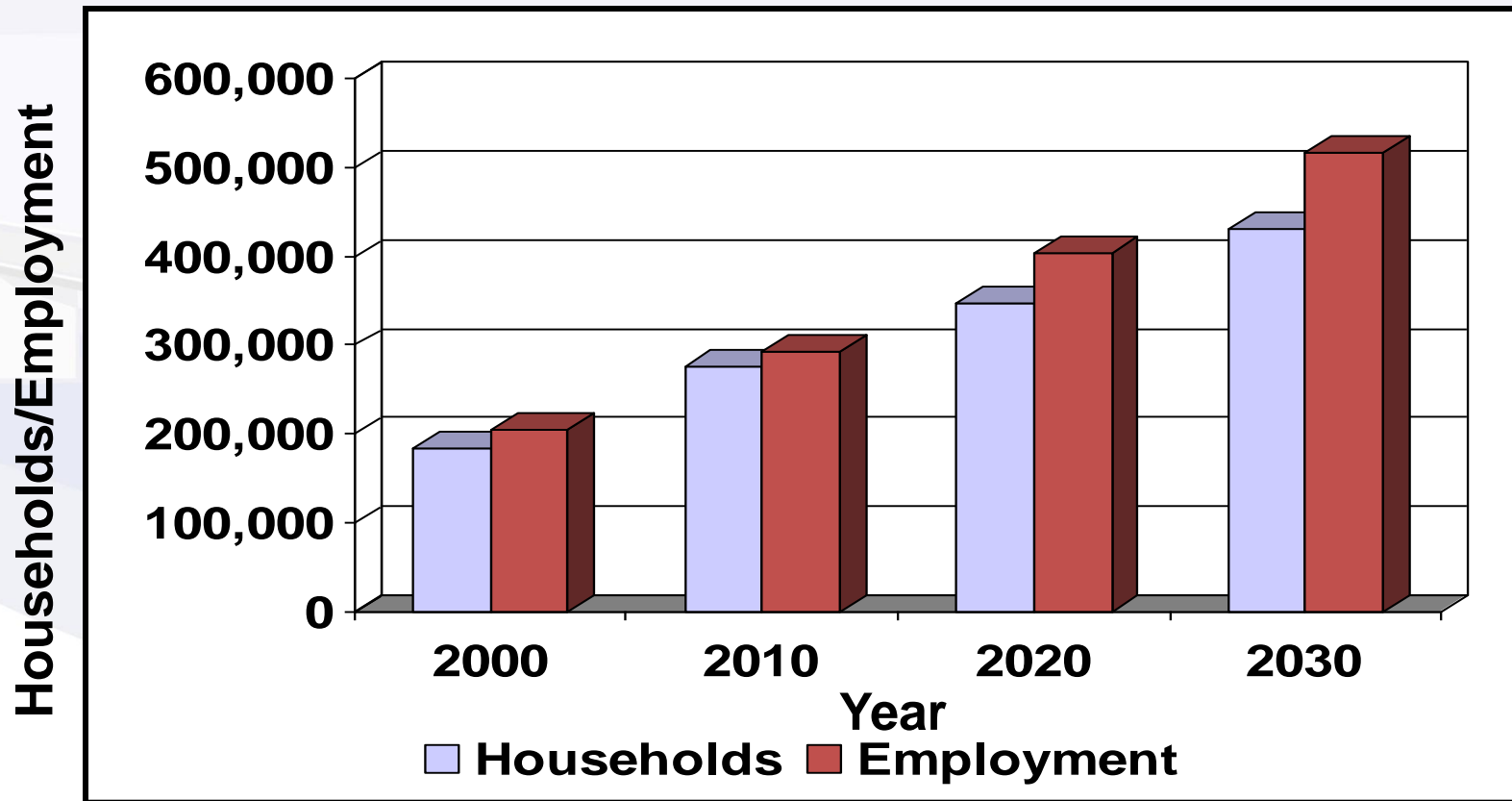
Data Source: www.nctcog.org



Lavon Lake Route Study

Project Need and Purpose

Collin County Household and Employment Growth



Data Source: www.nctcog.org

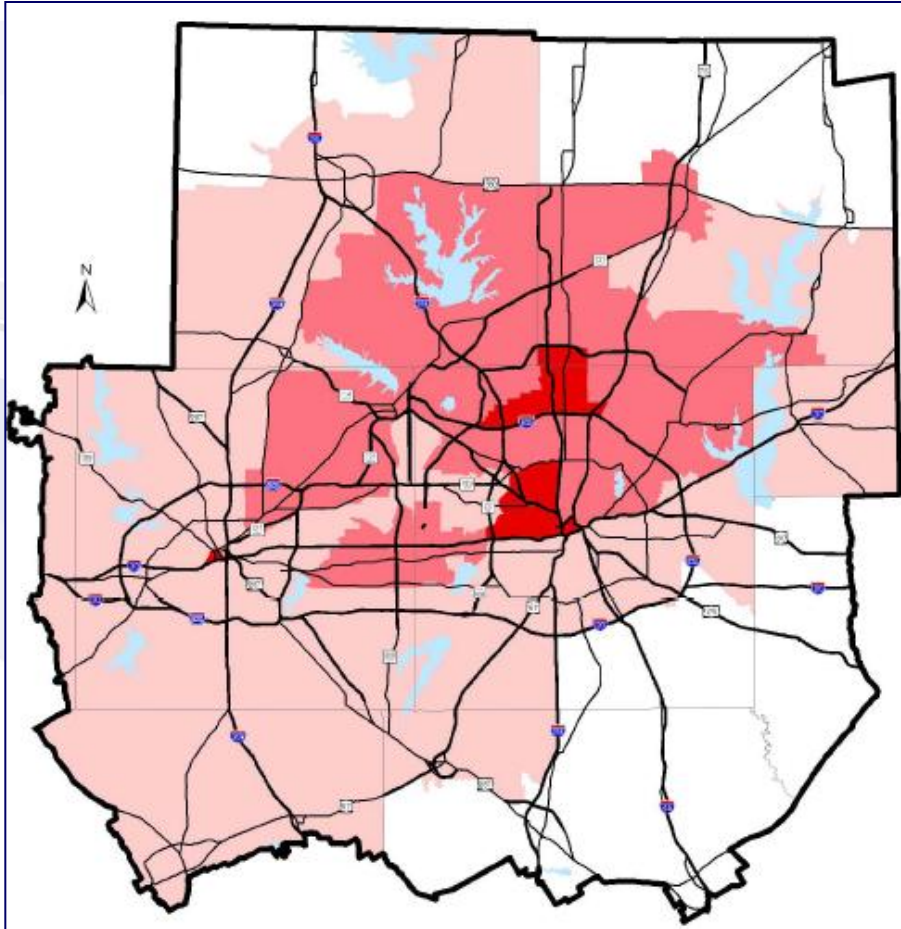


Lavon Lake Route Study

Project Need and Purpose

Regional Congestion Growth

2009 Congestion Level



Legend

- Areas with No Congestion
- Areas with Light Congestion
- Areas with Moderate Congestion
- Areas with Severe Congestion
- Roadways

Source: www.nctcog.org

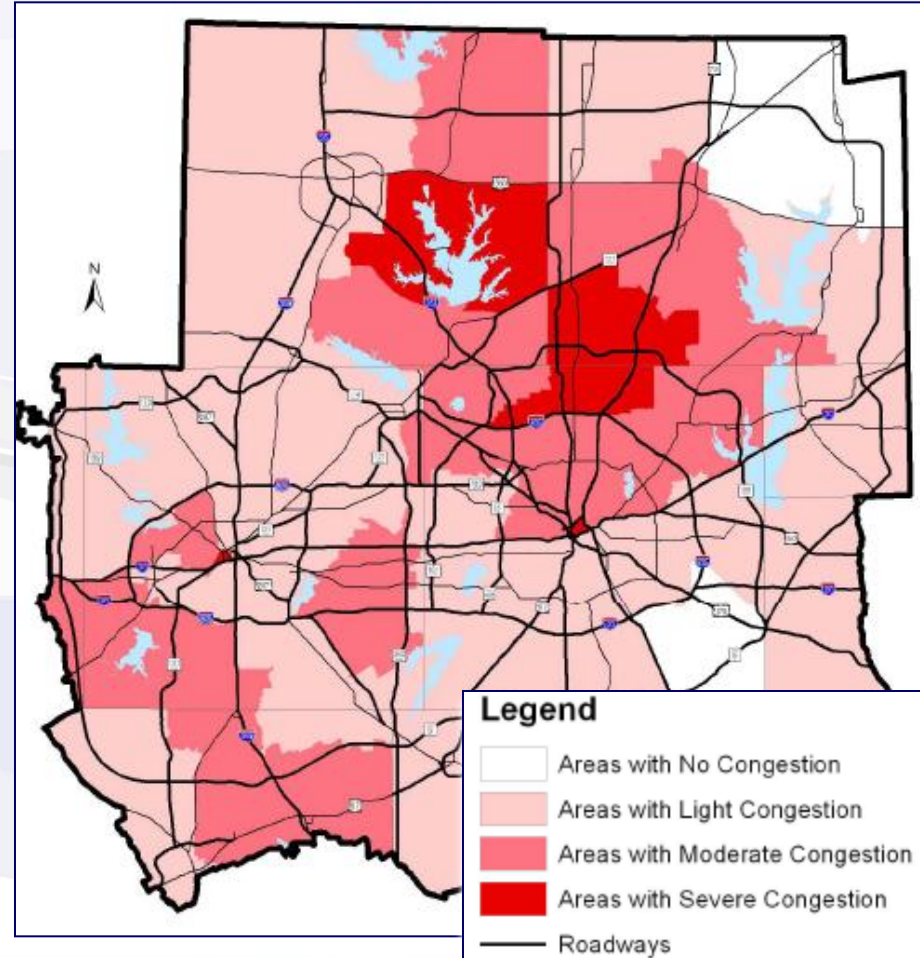
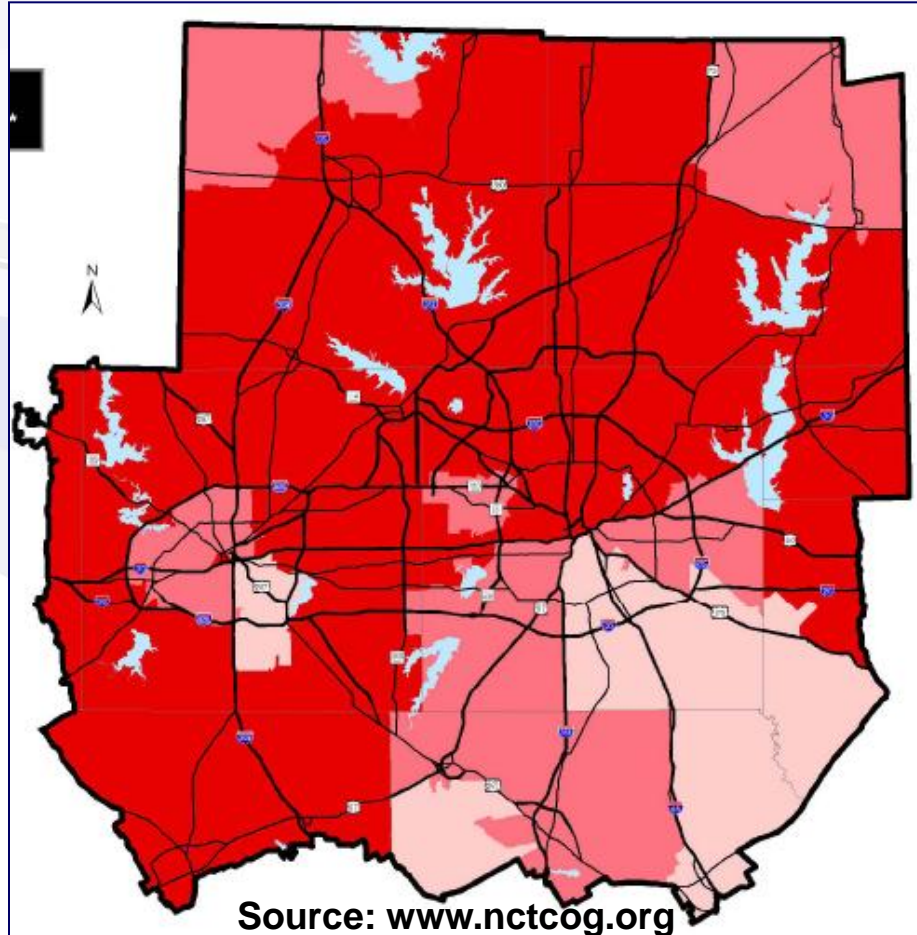


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Project Need and Purpose

Regional Congestion Growth

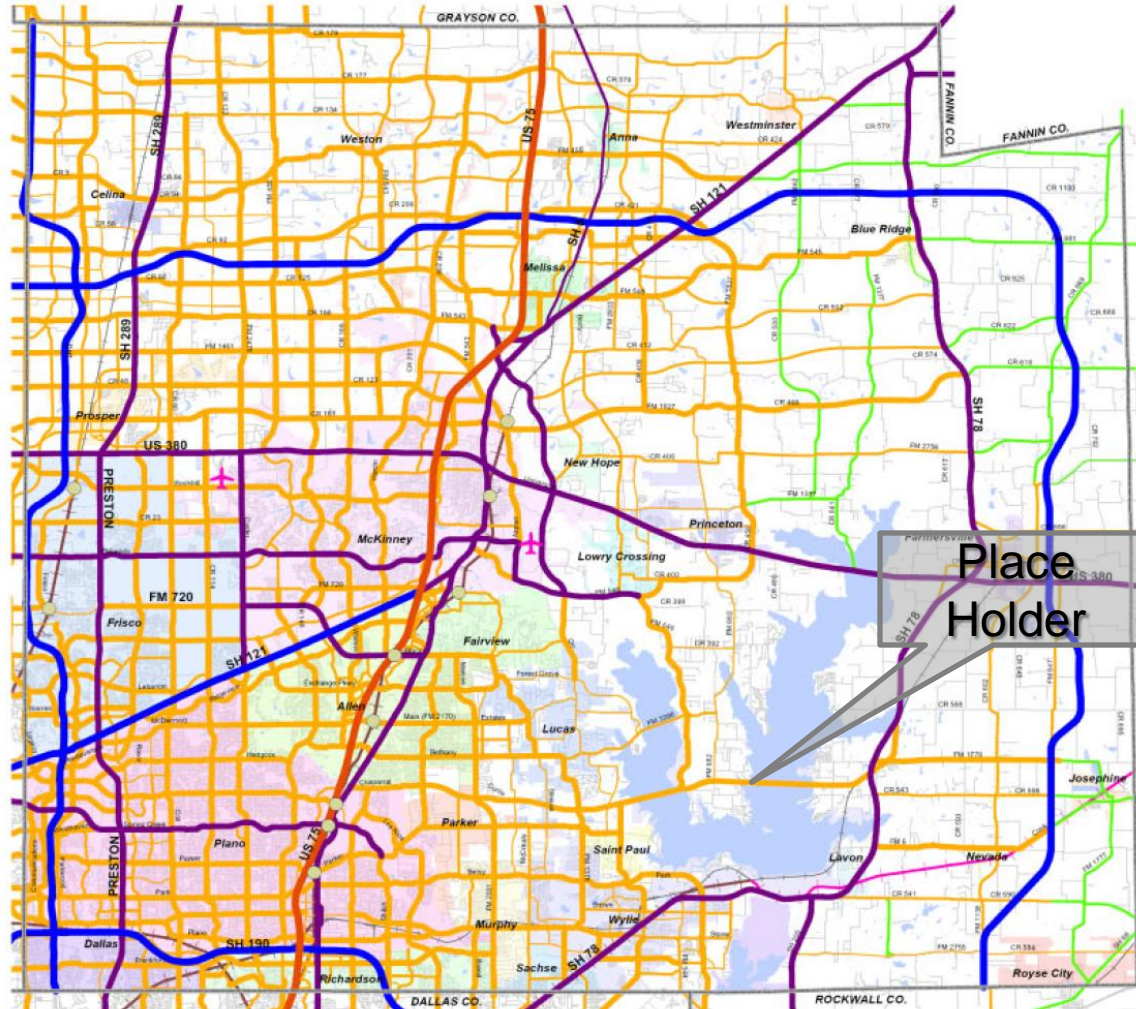
2030 Congestion Level (No Build) 2030 Congestion Level (Build)



Lavon Lake Route Study

Project Need and Purpose

Collin County Thoroughfare Plan 2007 Update



Source:
www.co.collin.tx.us



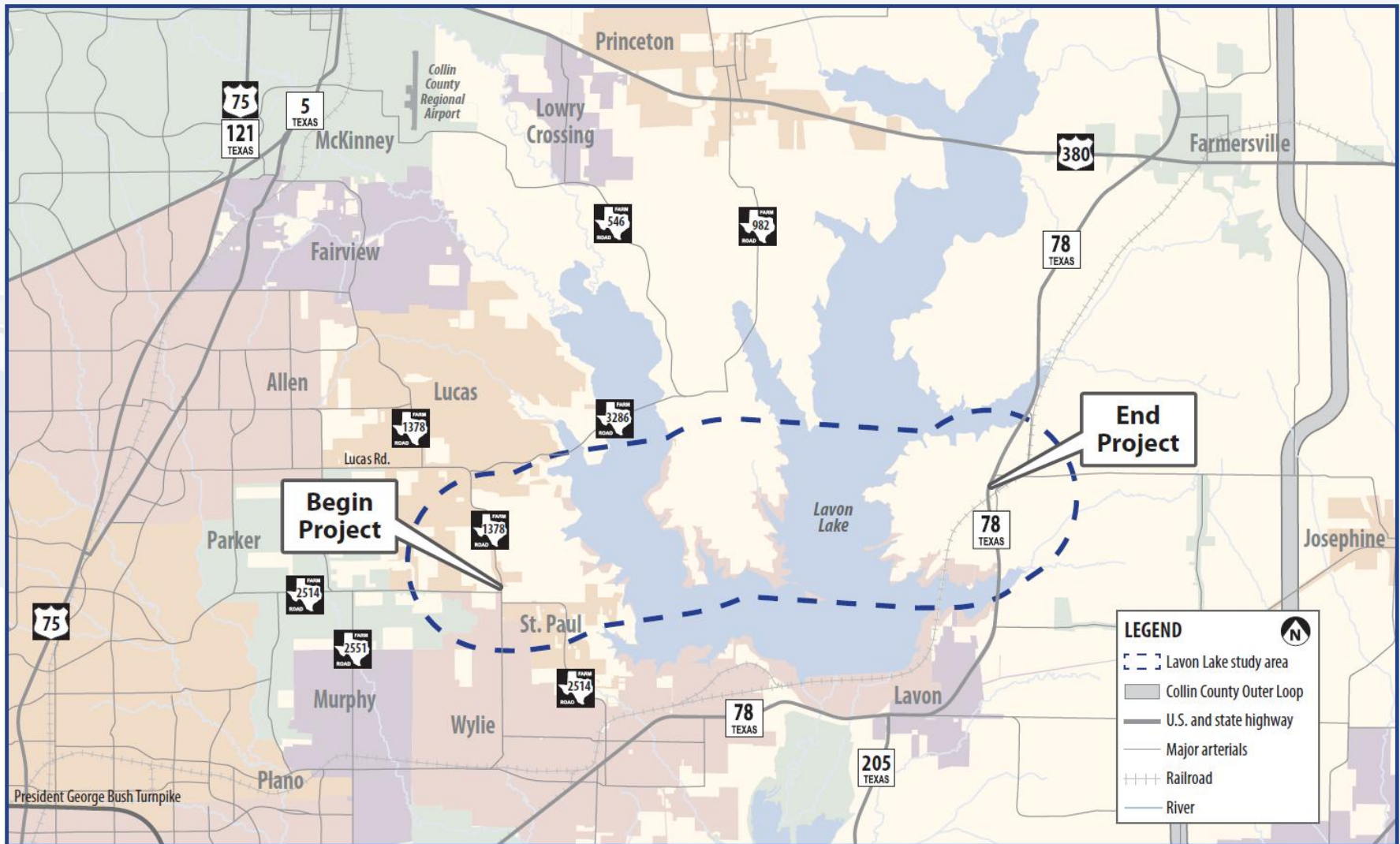
Lavon Lake Route Study

Project Need and Purpose

- Identify a technically feasible alignment to accommodate the growing east-west transportation needs resulting from population growth and development.
- Provide direct access to/from the peninsula for greater mobility and emergency access.
- Provide direct connectivity to US 75 and the future Outer Loop for greater mobility and emergency access.
- Provide an alternate east-west route other than US 380 and SH 78 in southeastern Collin County to mitigate for congestion levels.



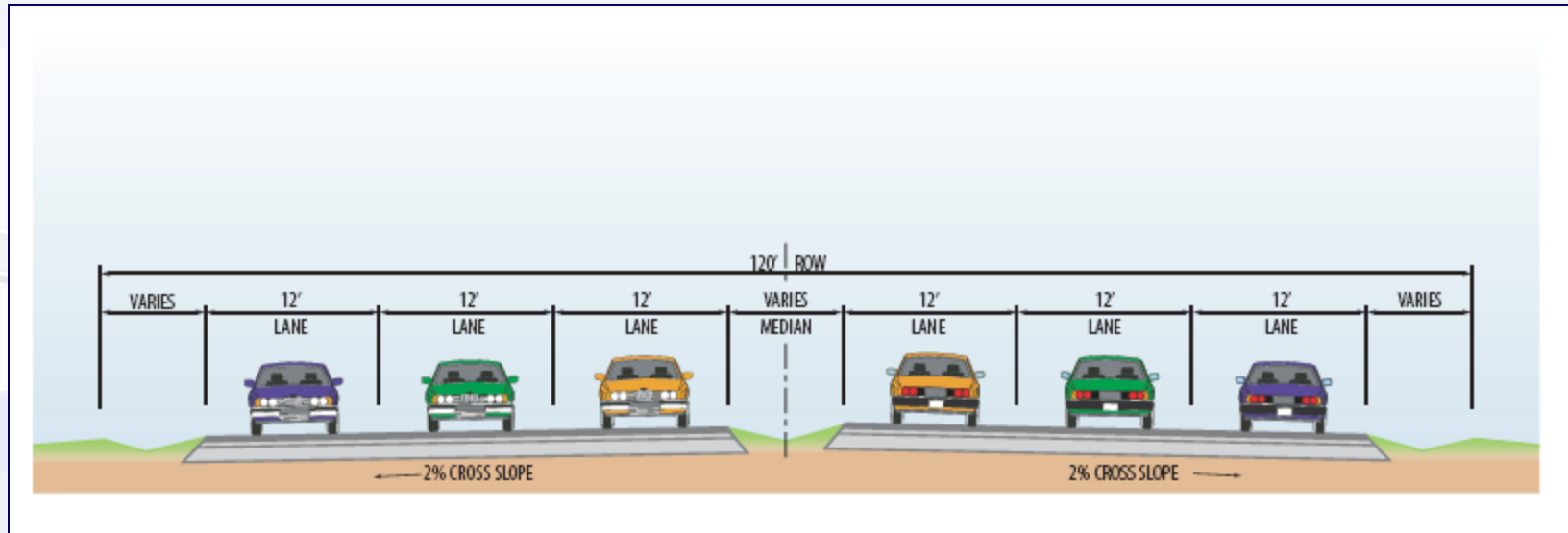
Project Location Map



Lavon Lake Route Study



Proposed Typical Section



Major Arterial
Six Lane Divided with Median (120' ROW)



Lavon Lake Route Study

Route Study Process

- **Data Assembly and Review**
 - Develop Environmental Constraints Map
 - Coordination with Cities and Agencies
- **Develop Alternative Alignments**
- **Public Meeting 1**
 - Refine and evaluate alternatives based on public input and comments
 - Develop technically feasible alignment
- **Public Meeting 2**
 - Refine technically feasible alignment based on public input and comments
- **Public Hearing (Recommendation to Commissioners Court)**
 - Technically feasible alignment is approved
- **Develop Final Report**



Data Assembly and Review

Constraints

- Developments
- Schools
- Cemeteries
- Floodplains
- Parks
- Rivers and Lakes
- Wetlands
- Railroads
- Historic Features
- Utilities

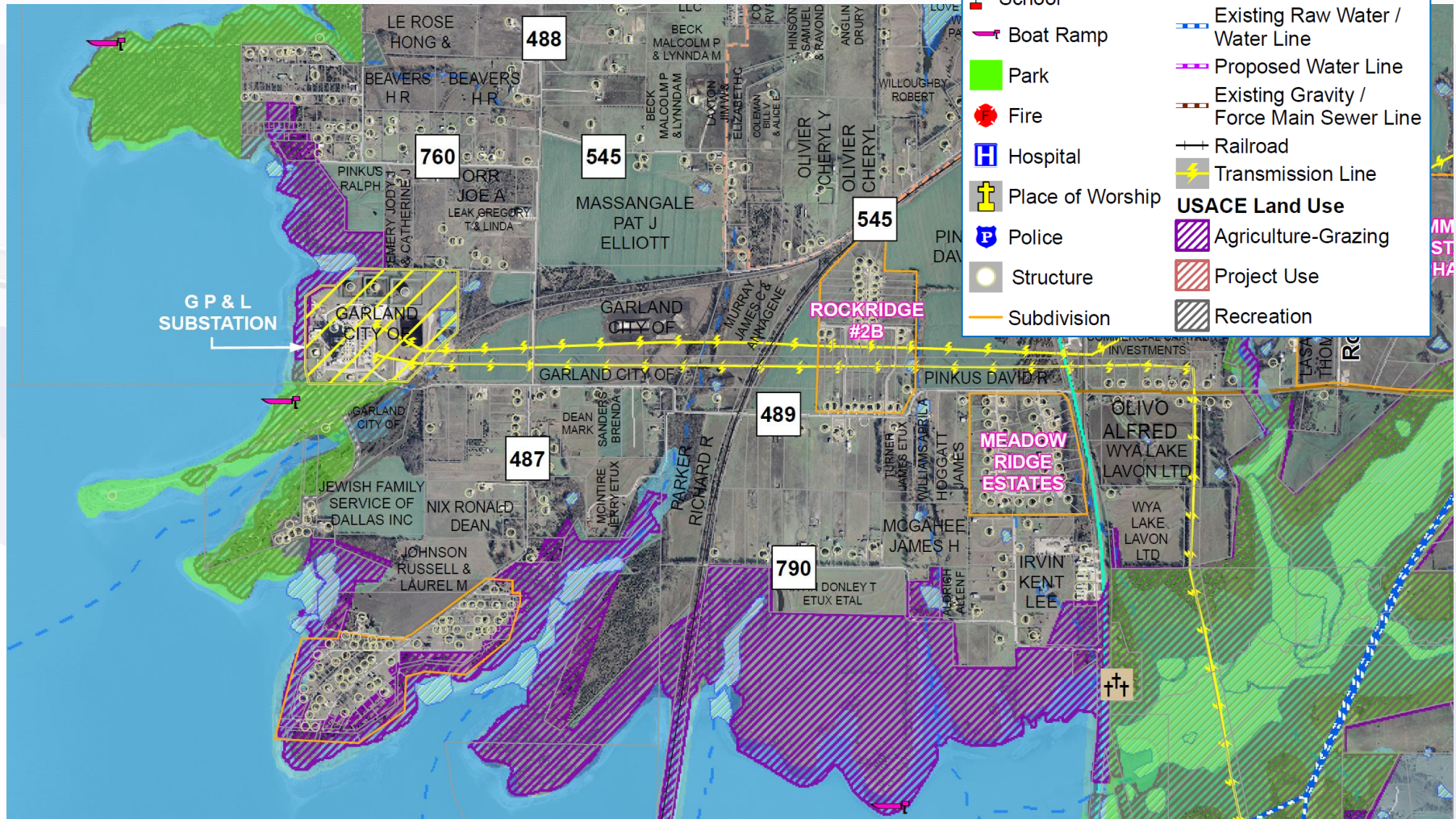
Coordination with Cities/Agencies

- City of Lucas
- Town of St. Paul
- City of Wylie
- North Texas Municipal Water District
- Texas Archeological Research Laboratory
- Corps of Engineers



Data Assembly and Review

Environmental Constraints Map



Lavon Lake Route Study



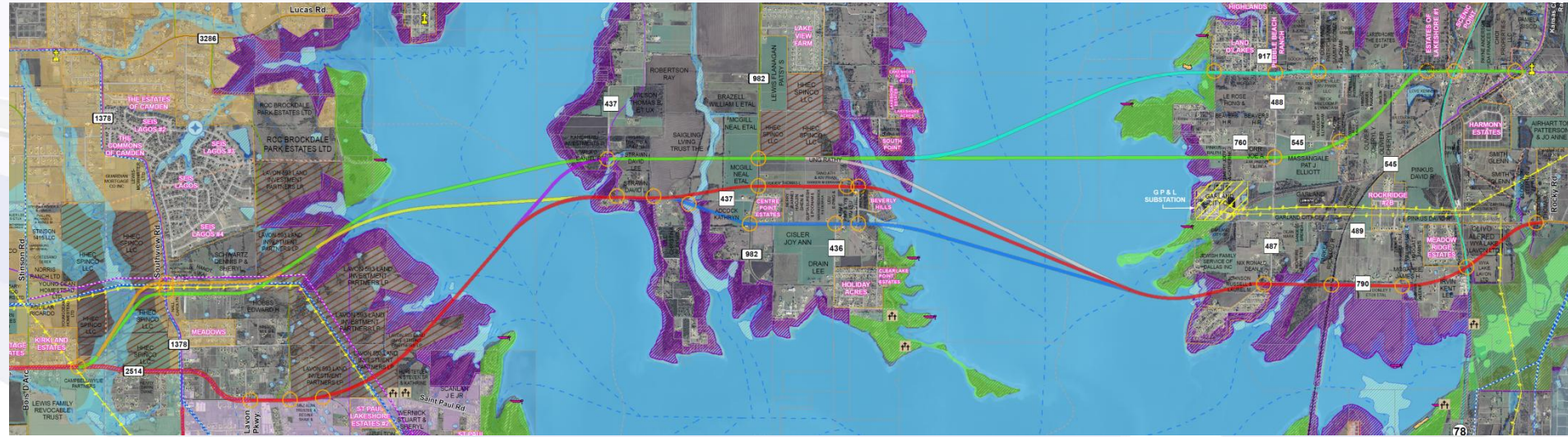
Alternative Alignment Development

- **Geometry**
 - Must meet geometric design criteria (45 mph land side and 60 mph across lake)
 - Minimize skewed intersection geometry
- **Avoid and/or minimize impacts to environmental features**
- **Minimize the impacts to the number of parcels and structures (homes) affected.**
- **Utilize existing and/or future roadway networks**



Alternative Alignment Development

Initial Alternative Alignments



Lavon Lake Route Study

Evaluation Criteria

Enhanced Mobility/ Safety

- Accessibility
- Safety

Cost Effectiveness

- Construction Cost
- ROW Acquisition
- Utilities/Infrastructure

Engineering Feasibility

- Compatibility with other projects

Environmental Features

- Noise Impacts
- Natural Impacts
- Cultural Impacts
- Hazardous Materials
- Socio-Economic and Neighborhood Impacts

Public Involvement

- Public Input



Evaluation Criteria

Alternatives Evaluation Matrix

Category	Criteria	Alternatives		
		Alternative 1	Alternative 2	Alternative 3
Enhanced Mobility and Safety	Accessibility			
	Safety			
Cost Effectiveness	Construction Cost			
	ROW Acquisition			
	Utilities and Infrastructure			
Engineering Feasibility	Compatibility with Other Projects			
Environmental Features	Noise Impacts			
	Natural Impacts			
	Cultural Impacts			
	Hazardous Materials			
	Socio-Economic and Neighborhood			
Public Input	Public Input			

Key to Ratings:

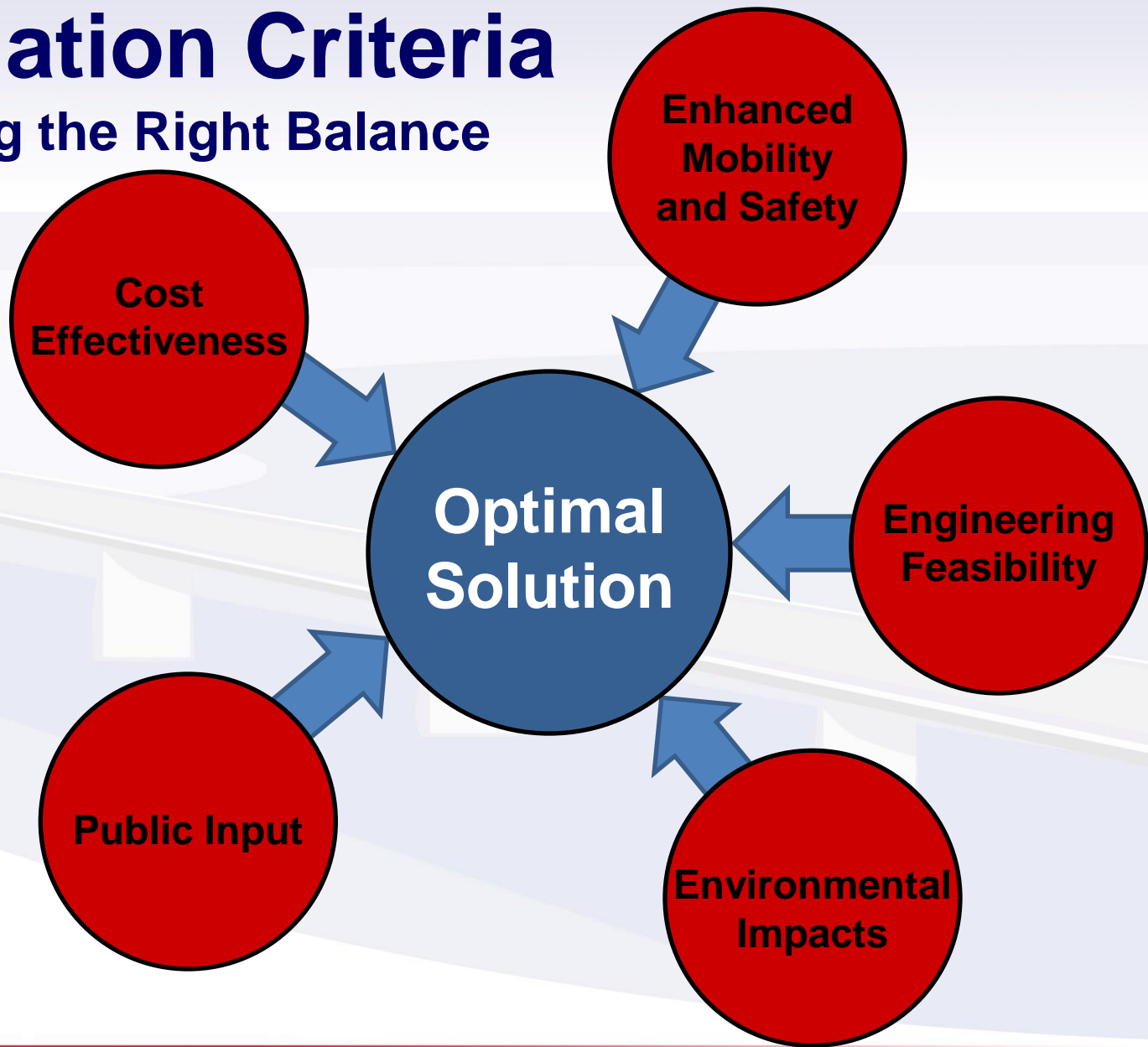
Significant Negative Effect	Some Negative Effect	No Effect, Neutral	Some Positive Effect	Significant Positive Effect
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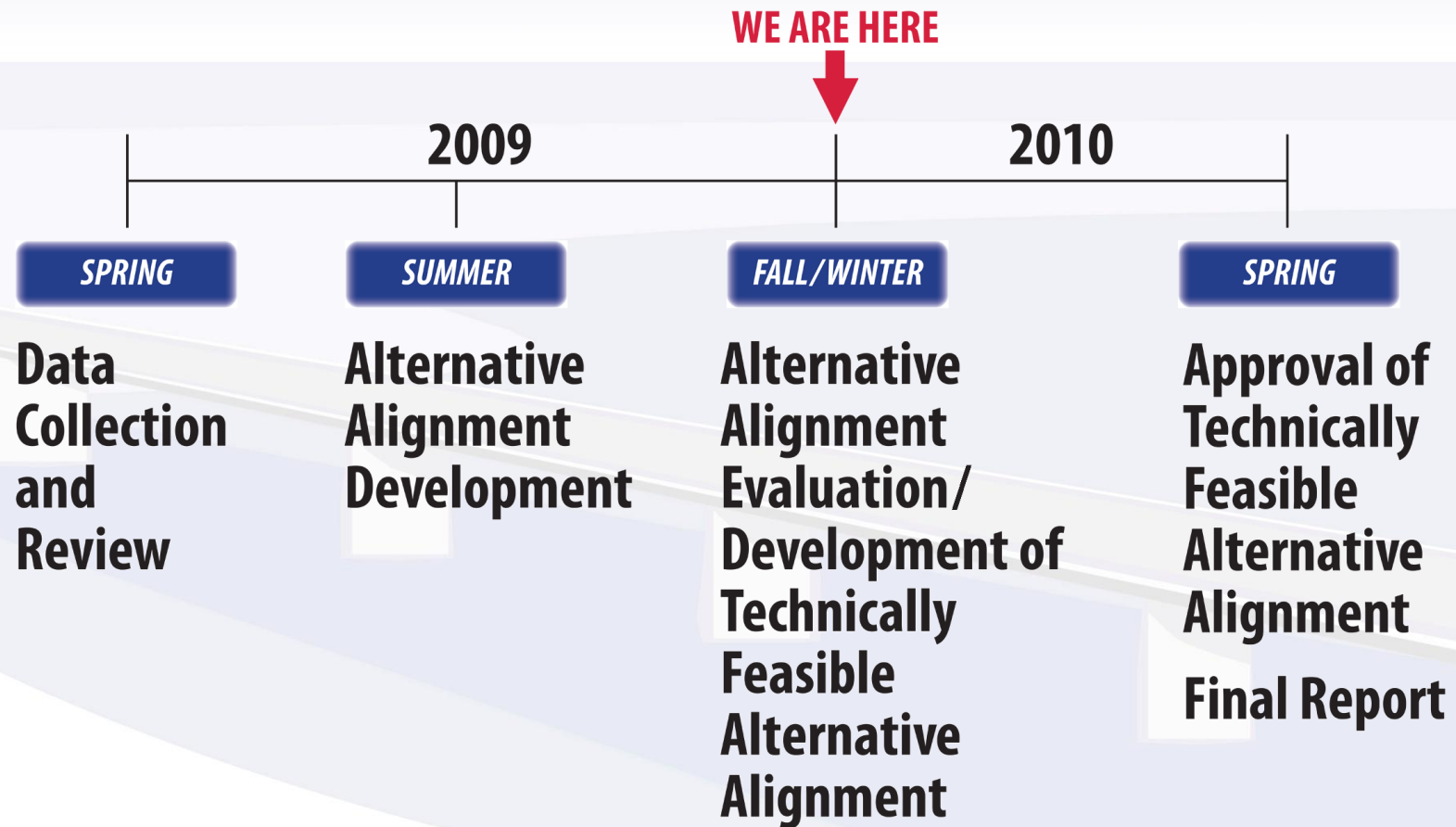
Evaluation Criteria

Achieving the Right Balance



Lavon Lake Route Study

Project Schedule



Public Involvement Process

How to Get Involved

- Attend Open House/
Public Meetings
- Mark your comments or
suggestions directly
on the maps
- Submit comment cards
today or mail to the study team
- Contact the County for information
or visit www.co.collin.tx.us



Lavon Lake Route Study

Questions and Comments

- Contact Information:

Mr. Ruben Delgado, P.E.
Collin County Director of Engineering
825 North McDonald Street, Suite 160
McKinney, TX 75069
rdelgado@co.collin.tx.us

- Speak at Public Meeting

- Speaker cards available at sign-in desk
- Please limit your Questions/Comments to 3 minutes

